



LABORATORY REPORT

Prepared For: Burns & McDonnell Project: [none]

9400 Ward Parkway Kansas City, MO 64114

Attention: Diana Marquez Sampled: 11/27/12

Received: 11/28/12 Issued: 12/11/12 12:56

NELAP #01109CA / AZ100001 California ELAP#2446 Arizona DHS#AZ0728 Nevada #AZ01030 ORELAP #AZ100001

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

 LABORATORY ID
 CLIENT ID
 MATRIX

 PVK1683-01
 DP129W01/22-26
 Water

 PVK1683-02
 DP129W03/48-52
 Water

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica

Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Linda Eshelman Project Manager



THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Burns & McDonnell Project ID: [none]

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1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVK1683-01 (DP129W01/22- Reporting Units: ug/l	26 - Water)								
1,4-Dioxane Surrogate: 1,4-Dioxane-d8 (14-125%) Surrogate: Nitrobenzene-d5 (27-143%)	EPA 8270C	12K1137	0.56	1.1	ND 39 % 91 %	1.11	11/30/12	12/04/12	E8
Sample ID: PVK1683-02 (DP129W03/48-Reporting Units: ug/l 1,4-Dioxane Surrogate: 1,4-Dioxane-d8 (14-125%) Surrogate: Nitrobenzene-d5 (27-143%)	52 - Water) EPA 8270C	12K1137	0.51	1.0	ND 38 % 91 %	1	11/30/12	12/05/12	E8



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METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 3520C/8270C MOD)

		Reporting			Spike	Source		%REC		RPD	Data	
Analyte	Result	Limit	MDL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers	
Batch: 12K1137 Extracted: 11/30/12												
Blank Analyzed: 12/04/2012 (12K1137-BL	LK1)											
1,4-Dioxane	ND	1.0	0.51	ug/l								
Surrogate: 1,4-Dioxane-d8	7.67			ug/l	20.0		38	14-125				
Surrogate: Nitrobenzene-d5	18.0			ug/l	20.0		90	27-143				
LCS Analyzed: 12/04/2012 (12K1137-BS1)											
1,4-Dioxane	20.4	1.0	0.51	ug/l	20.0		102	85-116				
Surrogate: 1,4-Dioxane-d8	7.37			ug/l	20.0		37	23-132				
Surrogate: Nitrobenzene-d5	17.1			ug/l	20.0		86	28-150				
LCS Dup Analyzed: 12/04/2012 (12K1137	-BSD1)											
1,4-Dioxane	20.9	1.0	0.51	ug/l	20.0		104	85-116	3	20		
Surrogate: 1,4-Dioxane-d8	7.11			ug/l	20.0		36	23-132				
Surrogate: Nitrobenzene-d5	17.7			ug/l	20.0		88	28-150				
Matrix Spike Analyzed: 12/04/2012 (12K1137-MS1)					Source: PVK1683-01							
1,4-Dioxane	23.3	1.1	0.56	ug/l	22.2	ND	105	65-138				
Surrogate: 1,4-Dioxane-d8	9.01			ug/l	22.2		41	14-125				
Surrogate: Nitrobenzene-d5	20.9			ug/l	22.2		94	27-143				
Matrix Spike Dup Analyzed: 12/04/2012 (12K1137-MSD1)					Source: PVK1683-01							
1,4-Dioxane	24.7	1.1	0.57	ug/l	22.5	ND	110	65-138	6	20		
Surrogate: 1,4-Dioxane-d8	7.57			ug/l	22.5		34	14-125				
Surrogate: Nitrobenzene-d5	18.0			ug/l	22.5		80	27-143				

TestAmerica Phoenix



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4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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DATA QUALIFIERS AND DEFINITIONS

E8 Analyte reported to the MDL per project specification. Target analyte was not detected in the sample.

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

[X] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803

[] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264 TAL-0013-550 (10/10)

Client Name / Address: Books a Mc Wantell Project / PO Nu				t/PO Num	ber:		Analysis Required										
9400 Word Park				622	589		٧										
Hansos city in	6	1/14	'				2			:							183
Project Manager:		Phone Number:			٥									PVKI	600		
Diana Malquer			816 333 9400				:),		
Sampler: 14eun Bollin		Fax Number:									,						
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	مسر مسر									Special I	nstructions
129129 WOI/ 22-26	(1)	Ambe.	2)7-FG-11	11.15	<u></u>	X										
OPWINDOMS/22-26	W	Amber	l.	11-27-15	11:15		X									M5	-01
DP125 WAY MSD/RETE		Amber	2.	11-27-17	11:15	. <u></u>	X								· · · · · · · · · · · · · · · · · · ·	195n	
DP129W03/48-52	W	Ambes	J.	11-27-12	12:35		X										-02
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Relinquished By: Date/Time: Received in Page 1030					in Lab By:	100	20	Date/7	ime:/	16	20	Sample I	integrity			V	
Fed 6x "	148/1	<u>ال</u>	<u>030</u>)	10/W	con p		~ ne	- /	1/2	- / U	<u>ا ۷ ر</u>	ntact			on ice	Δ

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project.

Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.